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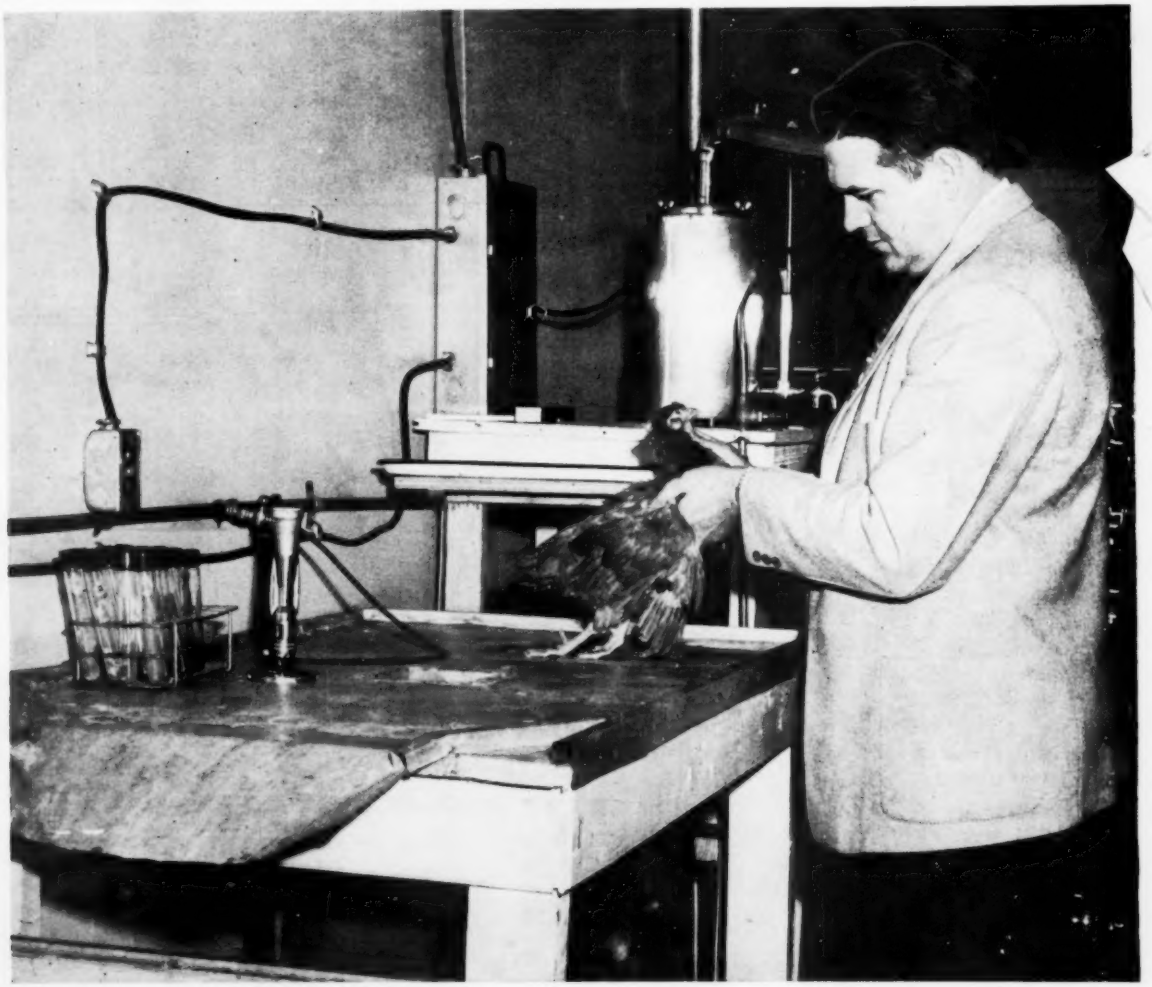
FARMERS FEDERATION NEWS

Vol. XXXI, No. 6 FEBRUARY, 1951 10c Per Copy



NEW POULTRY LABORATORY

See Page 2

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THIS MONTH'S COVER

The photo on this month's cover was made in the new Poultry Diagnostic Laboratory opened recently at Waynesville. Dr. Calvin C. Gatz, in charge, is shown making a pre'iminary inspection of a diseased bird. A story on the laboratory appears on page 9 of this issue and an article by Dr. Gatz is on page 5.

OPPORTUNITY DEPARTMENT

Buy, sell, or trade through this Opportunity Department. Hand your ad to any Farmers Federation manager or representative, along with the money, and he will hand it in to the Editor. Or mail direct to FARMERS FEDERATION NEWS, Asheville.

All ads are five cents per word. Smallest size acceptable is ten words, 50 cents. Name and address are free.

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"Well, I told you I'd never worked on a farm before."

FARMERS FEDERATION NEWS

VOL. XXXI, No. 6 FEBRUARY, 1951

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NOTICE!

HEADQUARTERS FOR VETERINARY SUPPLIES

Trantham's Drug Store has the largest and most complete stock of veterinary medicines, serums and vaccines in Asheville. GO IN — Take this ad and get FREE a 108 page booklet on how to treat your cattle, livestock, hogs, turkeys and chickens. Remember—it's FREE for the asking. Go to TRANTHAM'S DRUG STORE, Broadway at Walnut on the corner above Farmers Federation Freezer Locker. This is the store where filling your family prescriptions is a lifetime profession.

ASK US ABOUT THE NEW TRIPLE ANTIGEN TO PROTECT YOUR CALVES AGAINST WHITE SCOURS, MALIGNANT EDEMA AND BLACKLEG, ALL IN ONE INJECTION.

Hatching Egg Business is Expanding in W. N. C.

By SILAS J. LITTLE

The hatching egg business in Western North Carolina is growing. Are you planning to be on the ground floor? In past issues of the Farmers Federation News you have read articles about the expanding broiler industry and about some of its successful participants. You have heard about a new, large scale business which this broiler industry has helped to promote—production of hatching eggs. James G. K. McClure, President of the Federation, Guy M. Sales, General Manager, and James McC. Clarke have enthusiastically pushed the program with the Farmers Federation. Glenn Hunt, manager of the hatchery, has haunted many farms in Western North Carolina preaching the hatching egg business.

W. N. C. May Dominate Market

Is the business here to stay? We are convinced, along with most of the Southeast, that it is. Western North Carolina finds itself today in a position to dominate the hatching egg market for the Southern States immediately surrounding it. It is unbelievable, but it is true. The producers in any area rely on the best markets to determine the crops or livestock that they will have on their farms. We have long known that eggs from this area have a higher hatchability and produce hardier chicks than from other states in the South. Climate, fresh, clean water, and good management have all played a part in opening this market. Hatcheries from other areas are more than willing to pay a premium for eggs which you produce. Doesn't it make you feel proud to be a part of a program such as this? As the size of the Armed Forces increases and the price of beef rises, the demand for broilers and the chicks to produce them goes higher and higher.

There is only one person who can control the growth of the breeding flocks. That person is you, the farmer. If the poultry industry grows you must keep in step with it. Men like Tom Ray at Burnsville, Shelton Cade of Forest City, and women such as Mrs. Frank Leopard in Waynesville recognized this and acted accordingly.

Questions Answered

You are absolutely right, we do not want you to invest in a poultry flock until your mind is free from doubts. Would it help to answer a few questions which are going through your mind?

Can I Have a Hatchery Supply Flock?

Anyone can become a flockowner in business with the Farmers Federation Hatchery. There is one drawback to that statement — not just anyone can have a successful poultry supply flock. Have I dampened your enthusiasm? Don't stop reading yet because here is your key to success. Charles W. Davis of Brevard, a man of many years experience in the poultry business, will tell you that the most important thing you must have to succeed with poultry is a desire to work with chickens. If you don't like poultry, don't force yourself into the poultry business. If you do, let's see what comes next.

Housing for your birds rates first consideration. It doesn't need to be elaborate, but it does need plenty of ventilation and enough room to allow at least four square feet per bird. You have seen pictures of barns, sheds and old houses which are being used as chicken houses. Don't make the mistake of trying to "get by" with a wet location, poor ventilation, or an overcrowded condition. Ask your neighboring poultryman and get his opinions.

Jason McCall of Lake Toxaway has a poultry house which could be used as a dairy barn and is very well satisfied with it. Maybe you want to build a new house to start your enterprise, in which case you will want to know the approximate housing cost. By doing the work yourself and using some farm materials you can expect the new house to cost you between $1.75 and $2.00 per hen. We will go into the ways of financing this a little later in the article.

Some Requirements

Doesn't it make you feel satisfied and proud after you do some farm job which you know is performed as well or better than it can be done by anyone? That's the way we at the Federation hatchery feel when we see the wonderful work done by our flockowner. The best part of our program is that the flockowners actually set the standards of sanitation, disease control, egg handling, and flock management in general. They all know that these things are important if the Farmers Federation is to keep its reputation of handling only the best broiler chicks. Ask Ernest Walker and Gordon Barnwell the

(Continued on Page 6)

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News From The Front

By JAMES G. K. McCLURE

American System Different From All Others

THE American system of Government is different from any politically organized society now existing or that ever has existed in the world. Our governmental setup is different from that of any other people, and this difference is of the most vital importance for all the peoples of the world. Yet we are confused about it and do not know how to explain it to the rest of the world.

We are so accustomed to its benefits that they have developed into routine and we are not conscious of them any more than we are conscious of the air we breathe.

Mr. McClure

But do not mistake, we have a system of government won by a bloody revolution that is different from any other in the world.

Why does the American system succeed when the European system fails? Why is it that the poorest person in the United States has immeasurably more of the necessities and comforts of life than 95 per cent of all the people in the rest of the world? In all the rest of the world just a few people, the Molotovs, the Stalins, the Titos, the Indian princes and the small and decreasing number of plutocrats, fare better than the people on the lowest level of our American standard of living.

Why is it that ever since we started our Revolutionary System of Government the "whole atmosphere in the United States has seemed charged with a kind of electricity that sparked the human spirit with a manner beyond all earthly precedent?"

• • •

What Makes America Different

OUR forefathers had the wisdom to see that the human soul is the thing in man that is of eternal value — and that all men have this in common with one another.

All other countries and nations have put the State or the Government or the King first, but our forefathers put the individual human soul first, and stood on the platform of the right of the individual against his government. This based our Government on the God-given, inalienable rights of the human soul, and upon the firm foundation of religious faith and it commenced to become clear to all of us that only by developing a sense of individual responsibility and by following the guidance of God-given conscience can improvement come in human relationships.

We broke away from the European class-ridden governments, we broke away from the despots and police states that smother and destroy the human spirit and poison civilization.

And what have we got in the less than 200 years of our Revolutionary government? We have developed a people and a country by private enterprise to whom the whole world today looks for food and raiment and help.

Do our statesmen realize that it is not our arms, not our money, but this unique insistence on the supreme value of the human soul that the world needs? Do our statesmen go in and support the reactionary governments of England and Europe and the world, or do they say — first and foremost you must change your system of government, and base it on the supreme value of the individuals?

Our forefathers were wise enough to know that a conscientious observance of God's law would insure peace and tranquility in any community. William Penn put it clearly when he said, "Those people who are not governed by God will be governed by tyrants." And we must always remember that it takes continual vigilance to guard these sources of the power of free men.

• • •

Special Lord's Acre Issue Deferred

OUR readers have learned to expect a Special Lord's Acre number of the Farmers Federation News on February first. In these Special Issues Lord's Acre Reports have been presented from all over the United States.

This year this issue will be deferred. Rev. Dumont Clarke broke his arm in early December and is on leave of absence for a few weeks. After his return a special publication will be printed giving reports of the Lord's Acre Movement, and this report will be sent to ministers and laymen.

The regular Lord's Acre page will be found in this number of the News with the latest news of the Lord's Acre Movement.

• • •

Eighty-Five Bushels Without Work

HOW would you like to get 85 bushels of corn from an acre without doing any work?

Dean Colvard showed us the pasture experiments at the State College Farm. On some of these best fields they are getting feeding nutrients per acre equivalent to 85 bushels of corn. This means that one acre of this good pasture has the feeding value of 85 bushels of corn. This is an orchard grass and ladino pasture. To start this kind of pasture, you can get advice from the County Agent and read the pasture articles that have been coming out in the Farmers Federation News.

Good pastures will increase the carrying power of most of our farms three times. Three times as many steers, and three times as many dairy heifers will step up the farm income fast. So let's get set for a few acres of good ladino and orchard grass pasture this spring.

• • •

100 Bushel Corn Dinner

HIGH production per acre is what we all need on our farms. On Saturday, February 10, the Farmers Federation will honor the farmers and farm boys and girls who grew 100 bushels of corn on a measured acre in 1950 on the farms of Western North Carolina. F. H. Jeter, Editor of Publications at State College and Dr. Emerson Collins will be our speakers.

This dinner is an annual celebration. It will be held this year at the George Vanderbilt Hotel in Asheville at 12 o'clock, Saturday, February 10. The first year this dinner was held it was very small, with only four or five qualifying. This year we hope at least 200 will qualify.

We hope hundreds of our readers will qualify for this dinner in 1952. All you have to do is grow 100 bushels of corn on a measured acre under the supervision of your County Agent in 1951.

We are all proud that Mr. Dwight Williams of Haywood County is the Champion Corn Grower of North Carolina. This is the second year in succession that Mr. Williams has won this great honor. Western North Carolina is also proud that we have the second highest acre in the state. This was grown by Ray Evans of Clay County.

• • •

Movie At Stockholders' Meeting

THIS spring we will have a movie in color at our county stockholders' meetings. Pastures mean so much to us in the mountains that we have arranged with State College to have their new pasture film at our spring meetings. The schedule of meetings is as follows, and Dr. Collins or Sam Dobson will be with us to tell us how we can get these high-producing pastures. Dean David I. Weaver will be the chief speaker at our big final Stockholders' meeting at Asheville, Saturday, March 31.

Sat., March 10	Burnsville	10:30 a.m.
	Spruce Pine	2:00 p.m.
Mon., March 12	Marion	10:30 a.m.
	Forest City	2:00 p.m.
Tues., March 13	Old Fort	8:00 p.m.
Thurs., March 15	Tryon	8:00 p.m.
Fri., March 16	Brevard	2:00 p.m.
	Hendersonville	8:00 p.m.
Sat., March 17	Morganton	10:30 a.m.
	Lenoir	2:00 p.m.
Mon., March 19	Franklin	10:30 a.m.
	Hayesville	2:00 p.m.
	Murphy	8:00 p.m.
Tues., March 20	Bryson City	10:30 a.m.
	Sylva	2:00 p.m.
Thurs., March 22	Craggy	8:00 p.m.
Fri., March 23	Fletcher	8:00 p.m.
Sat., March 24	Waynesville	10:30 a.m.
	Fairview	2:00 p.m.
Sat., March 31	Buncombe County Court House	10:00 a.m.

• • •

Forest Products Department To Champion Paper and Fibre Company

ON February 1 the Farmers Federation will transfer its entire pulpwood business to the Champion Paper and Fibre Company. R. T. Reed, who has so capably handled and built up the pulpwood business for the Farmers Federation, goes to the Champion Paper and

(Continued on page 17)

Increasing Egg Production For Better Income

CALVIN C. GATZ, DVM
Poultry Diagnostic Laboratory, Waynesville, N. C.

"Why don't my hens lay more eggs?" is a question often asked in Western North Carolina. It is impossible to answer this general question in regard to all flocks, but if we take the flocks one by one we can usually find the answer. Let us start with the basic problem, the stock the hens come from. A good strain of chickens is the chief reason for success in the chicken business. For instance, if you wish to raise eggs for commercial purposes buy a breed of chickens that lays lots of eggs, such as the Leghorn or the laying strain of Rhode Island Reds. If you are interested in hatching eggs here in Western North Carolina buy New Hampshires or some other breed that is in demand because of its meat producing qualities. Remember that the New Hampshire breed is not noted for the large number of eggs it produces. If the hens which produced your chickens came from strong, vigorous stock, were raised on clean ground, were vaccinated properly, and fed a good feed throughout the laying season, your hens should have no trouble in handling their part of production.

Feed Is Important Factor

Another factor that has a great deal to do with the production of eggs is the feed that is given the hens. We will assume that the chicks have been brought through their first ten weeks in the brooder house, then were put on the range. The first requirement for range is that there is plenty of green food to eat. Ladino clover is very good for chickens. See that the pullets get plenty of grain such as oats, enough mash to give them continuous growth, and plenty of water. Some will say, "Which is the best feed?" that can only be answered by, "Whichever you like best or have the best results with." Almost all of the well known brands of feed are good. The most important thing is to stay with one brand if possible. Every company prepares its feed to fit into a regular feeding program, and if the maximum is to be secured its program should be followed to the letter. You should start the feeding of grit to the chicks as soon as possible. The more grit the pullets can get into their gizzards the more muscular and better developed their digestive tract will be. There are several types of medicated feeds on the market which are very helpful in times of coccidiosis or other diseases. When bringing the pullets in from the range it is better to keep the birds on a ration they are used to and gradually mix in the new breeding mash until the new ration is being fed altogether. The grain ration is something that should be watched very closely, and increased or decreased upon the demand of the hens. The hens, also, should be watched closely, and the ration increased as egg production increases and decreased if the body weight increases and egg production decreases. Hens are like people in the fact that they like fresh food. After the hens are fed in the morning the mash should be stirred up several times a day. Pellets may be fed at noon, and the mash in the feeders wet with water in the afternoon, all of which will stimulate better egg production.

A flockowner may have fine stock and a good feeding program, but if he does not have good management in his flock the first two measures will not be utilized to their fullest. Management means keeping the litter clean and dry by stirring, mixing in lime (five to 10 pounds per 10 square feet) when necessary, and paying particular attention to the litter under the waterers. A hen uses a great deal of water and needs a constant supply of clean, fresh water if the highest production is to be reached.

Housing Important

Housing is also a very necessary part of management. A house can be built at a low cost, and will do very well if dampness and drafts are kept out. It is of utmost importance to worm your pullets before putting them in the laying house. This is best done several days before housing. By giving them a flush to keep the worms on the ground you can keep your laying house from becoming contaminated with worm eggs. When the dark days of Fall and Winter arrive, lights are necessary to get peak production from the hens. Thirteen hours a day is long enough. It is best to turn the lights on early in the morning, and let the chickens go to bed by natural daylight unless a rheostat is used for dimming. A high production

(Continued on Page 12)

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HATCHING EGG BUSINESS

(Continued from Page 3)

next time they are by your place about the quality of the broiler chicks which you, the flockowner, are producing. Have you ever seen a farmer get cheap performance from a car which isn't given good care? Neither can you get maximum production out of hens which aren't fed and cared for properly. Do not expect good results if your litter is shallow and wet; if your house is room tight; or if the birds are fed a low grade breeding mash. These things cannot be emphasized enough in any poultry breeding program.

It Doesn't Cost To Ask

Too many times your hatchery man is more than willing to help any prospective or established poultry grower with his or her problems. But there is one thing we do expect of you. Just let us know when you need help. After all, service is our business so far as you, the flockowner, are concerned. We are now equipped to be with you on the farm more than ever.

When Should I Start a Flock?

More and more the hatcheries are urging poultrymen to plan on having two hatching egg flocks per year. Why? The main reason for this move is because you are able to have a steady income from a steady supply of eggs. Mrs. J. W. McGuire, Brevard, is one of the flockowners who is using this two-flock system of producing hatching eggs. She starts baby chicks in early to come into production in the Fall. She then starts another brood in the Fall which will be in peak production during the egg scarcity of the Summer months. Sounds very reasonable, doesn't it? It is also profitable. Just ask Mrs. McGuire. Maybe you want to start only one flock your first year. If so, you are probably interested in growing the birds out as cheaply as possible. You can do this by starting them early in the Spring so that you can take advantage of Summer grazing on Ladino clover. By using good grazing which is high in protein you can range your pullets on a restricted mash feeding program until they go into the laying house. Mrs. R. M. Reynolds, Leicester, says that good range with a restricted feeding program has proven to be the most economical growing system she has used.

Will I Make Money?

It's all up to you, Mr. Flockowner. The statistical experts in the hatchery field say that the coming year is going to be better than 1950 and that the purchase of broiler chicks will increase over last year. This means that there will be a good, steady market for your hatching eggs with the Farmers Federation Hatchery. The biggest, most important factor in your success or failure in poultry is good management of your poultry flock. Just because you are new in the poultry industry don't get the idea that the odds are against you. Let's take a look at one of the successful Farmers Federation flockowners.

Miss May Byrd Smith of Forbes, N. C., housed around 383 pullets and 30 cockerels. That's a good sized job for a beginner. These birds came into production in September and with the exception of small, natural slumps have been laying at the rate of 65-70 per cent. Miss Smith has now decided to increase the number of her next year's flock to 500 birds. By the time her old hens are sold, Miss Smith should have around $2.75 net profit per bird.

The Size of Your Flock

Is it wise for a beginner to start with 100, 200, 300 or 500 hens? That question, too, depends upon your facilities and your capital. The trend is towards the 300-500 hen flocks. It takes very little more time to care for 400 hens than to care for 150, but your amount of income is more than doubled. C. F. Parrish, N. C. Extension Service, says that most farmers find it best to have either 400 hens or a back yard flock of 40 hens.

Of course, the amount of money which you have to invest must play a part in your selection of poultry flock size.

Your first concern is the amount of money it will take to get your flock into the laying house. This cost will vary according to the producer and the conditions, but most of the Federation poultrymen find that it costs them around $2.00 per bird to put a baby chick into a laying house. The amount of sickness and mortality which you have is up to each individual. By doing the work carefully and wisely, you can usually be proud of your record. It isn't just a gamble, after all. The chances are what you make them. In addition to your regular flock expense you must feed at least eight roosters for each one hundred hens out of the premium price you receive for your hatching eggs. Don't forget, we want you to make money and the Farmers Federation warehouse managers and field men are anxious to help you increase your income through poultry.

Women Ahead of Men

The women in Western North Carolina are probably one jump ahead of you men in poultry. They have gradually increased their income and have recognized a challenge to the agriculture of Western counties which many of their husbands have ignored. Don't let

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me step on your toes, men, but move your feet in the right direction. The next time your wife interrupts your after-dinner rest to ask you about starting a Federation supply flock, listen to her, because it could be the beginning of a self-sufficient enterprise for both of you. If others can do the work, enjoy it, and find it profitable, so can you. You people up around Burnsville, go over to see Tom, Thad, and Clate Ray who are all Federation flock owners and good ones. Ask them how they maintain their record of high production, high hatchability, and low mortality. Of course we don't want you to do anything blindly. Ask your neighbors questions, profit by their mistakes and find the profit in that poultry flock.

Having Financial Trouble?

Yes, it is quite a headache. The best part of the poultry program in practically every county, however, is the spirit of cooperation shown by banks and county officials in helping you finance the house for your birds. They realize that the poultry program is on the verge of becoming the most important single enterprise on many Western North Carolina farms. The bankers in Buncombe county, at a meeting last month, asked each farmer who needs financial aid to come in and talk to them about their individual situation. Contact the Federation Hatchery and we will be happy to help you with your problems concerning a start in your poultry flock. The Farm Home Administration office in your county is set up to give you financial aid should you be unable to obtain it from other sources.

Do you have other questions? I hope that you will not let them be unanswered no matter how small or large they are. The force at the Farmers Federation will be looking forward to meeting you and answering them for you. If you are reaching for a pencil and a post card to write to the Farmers Federation Hatchery, Asheville, N. C., you can be certain that you are going in the right direction.

What To Do

1. Contact the Farmers Federation Hatchery, or warehouse manager.

2. Get that new house started or your old one remodeled if necessary.

3. Book your order for the best chicks available.

We know that the market for hatching eggs is here and that it is expanding every day. We know that we are blessed with natural resources and good climate to produce better-than-average poultry products. We know, too, that Western North Carolina farmers are more capable of becoming good poultrymen than in any section of the South. Are you one of them?

FLOCKOWNERS' NEWS

By GLENN D. HUNT, Manager
Farmers Federation Hatchery

BEGINNING with this issue, the Farmers Federation News will carry this column as a monthly feature. We want to use this space to discuss current problems that we find in the field, and to pass on to the flockowners of Western North Carolina the latest information on the care and raising of flocks.

It is our express desire that each flockowner of this area will contribute to this column from time to time by sending in any new ideas or by asking questions concerning the problems he is faced with. Also, we will be glad to have the opinions of flockowners of this section on anything printed in this column. This, we feel, will be another step toward coordinating the activities of the flockowners and the hatchery.

New Blood For New Year

We were very fortunate in securing hatching eggs directly from the Nichols Poultry Farm which we plan to hatch out for replacement stock. This means that we will have pure Nichols breeding hens for another year. This is going to be profitable for you in several ways. Mr. Nichols has made the statement that each year of his progeny breeding work adds three to five eggs per hen, so in a large flock of birds this can be a considerable amount of additional income over the production that we received last year. As you know, it has been several years since any Nichols blood was brought into our flocks. This means that we would be in line for an increase in production for the coming year from each bird. The hatchery feels that it is just plain good business to use the Nichols strain of the New Hampshire chick for broiler chicks. Here is why: (1) They are light in color and that means they will sell 12 months in the year. (2) They have a decided advantage in rate of growth, feathering, and outstanding feed conversion, enabling the broiler growers to meet competition. This results in steadier and larger sales for you as hatching egg producers. (3) They are extra vigorous and livable at all ages. (4) They will give a high-rate of hatchability over a 12 months period in comparison to the other

(Continued on Page 14)

IT MEANS SO MUCH TO KEEP IN TOUCH

"Grandma?—Mommy says come on over ... sumpin' good's cookin'"

The nearness of loved ones . . . the "togetherness" of the family . . . how much they depend on your telephone! Because it makes it so *easy* to keep in touch, you might easily forget just how much the telephone means to your enjoyment, convenience and peace of mind. And the price is still low. Rates for today's expanded and improved service have gone up far less than most other things you buy. Yes, telephone service stands out as one of today's biggest bargains.

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SEED POTATOES

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ALL FARMERS FEDERATION
WAREHOUSES

FRED N. COLVARD

COLVARD FARMS

JEFFERSON, N. C.

FROM DRAPERIES TO POULTRY

W. R. Greiten of Hendersonville has proved that a person with no experience can become a successful poultryman in just one year.

After spending 25 years with Gimbel Brothers in Milwaukee, Wisconsin, the last 18 years of which were served as manager of the Drapery Workshop, Mr. Grieten was growing tired of catering to and trying to satisfy the wishes of exacting homemakers.

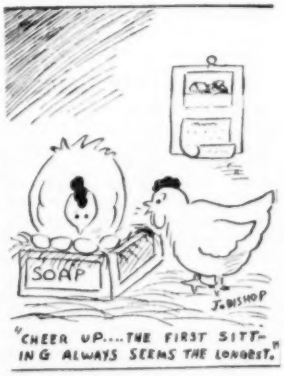
In 1948 he and Mrs. Greiten made a trip to the West Coast thinking that somewhere along the way they might come across a place they would like to call "home" in the future. It was a nice trip, but after returning, Milwaukee still looked good to them. In the winter of 1949 they made a trip through the Ozark country with the same thought in mind. That same spring they came down here to Western North Carolina and before a day had passed they both decided that this was the place. They contacted a local real estate man who showed them a number of properties and the one that appealed to them was a poultry farm on the Kanuga Road, Hendersonville, owned by Mr. John Plain of Fletcher. The Greitens had planned to go into the motel business, but after seeing this well equipped poultry farm they quickly changed their mind about their future means of livelihood.

On January 1, 1950, Mr. and Mrs. Greiten and Toby (their pet cat) arrived here to take over their newly acquired property. On March 7 they received their first brood of 500 New Hampshire Brightwater Strain production chicks. After having had a very satisfactory experience with their first chicks, they purchased 1,000 Nichols Strain baby chicks in August. Approximately 500 of these were sold as fryers in November, netting a nice profit.

The Greitens have constantly striven to modernize and improve their equipment. Among other things they have lowered their feed troughs to encourage a greater consumption of feed. The fluorescent lights that turn on automatically at 4 a.m. have proven economical and have increased egg production. During the cold weather in December the newly installed electric water heaters, which keep the water at a constant temperature of 50 degrees, were used to great advantage.

After having enjoyed excellent production, the Greitens started selling hatching eggs in January.

At present, Mr. Greiten is building an addition to his poultry house which will accomodate an additional 600 laying hens. The Greitens find the poultry business both remunerative as well as fascinating and say they are here to stay.



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It Takes a Lot of Us....

to make the broiler industry what it is today and to keep it growing. We, at Nichols, appreciate the wonderful job so many of you have done in reproducing Nichols New Hampshires. We are grateful for the overwhelming preference for Nichols New Hampshires shown by flockowners, hatcherymen, growers and processors in all major broiler areas.

For our part, we will continue to do our utmost through scientific breeding and selection to improve this outstanding meat strain. Already our progeny test program — with its 142 individual male matings — is one of America's largest.

With your continuing support, we should all grow and prosper together.

If you would like the free, 36-page Nichols story, it's yours for a penny postcard.

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"Dedicated to The Upbuilding of Western North Carolina"

FARM CLUB HONORS NEW WORKERS IN W. N. C.

THE FARMERS' LUNCH CLUB of Buncombe county honored new agricultural workers to this area at a recent meeting in Asheville. Shown above at the speakers' table are, from left to right: Dr. Calvin Gatz, head of the new Poultry Diagnostic Laboratory at Waynesville; Coke Candler, Chairman, Buncombe County Commissioners; Ben Jenkins, new W. N. C. Farm Agent; James G. K. McClure; President, Farmers Federation; M. R. Whisenhunt, new Assistant Director in Charge, Mountain Experiment Station, Waynesville; R. C. Shoffner, Assistant Director, N. C. State Extension Service and Dr. E. C. Kunz, Arden.

Poultry Diagnostic Laboratory Opened By State At Waynesville

Opening of a poultry diagnostic laboratory at Waynesville to serve Western North Carolina's thriving poultry industry was announced recently by Dr. H. J. Rollins, state veterinarian.

Dr. Calvin C. Gatz is in charge of the laboratory. He is a graduate of the Kansas State Veterinary College and served six years in the Veterinary Corps and the Medical Service Corps of the U. S. Army during the World War II period.

The laboratory, located in a building near the Waynesville bus station, will be open from 8:30 a.m. to 5:30 p.m. Monday through Friday of each week to provide poultry diagnostic service to producers in the western counties. It is equipped to make routine examinations and diagnosis of diseased poultry and plate and tube tests for pullorum disease, as well as to conduct the hema-agglutination test for the diagnosis of Newcastle disease.

Dr. Gatz will be available to do some field work in flocks where disease outbreaks occur. Poultrymen are advised, however, to take their sick birds directly to the laboratory whenever possible.

"The purpose of this laboratory," the State Veterinarian explained, "is to safeguard as far as possible the growing poultry industry in the western counties. These counties are too far from Raleigh to obtain a satisfactory service from the central laboratories maintained by the State Department of Agriculture and by State College.

"In recent years the poultry industry has increased rapidly in some of the western counties, providing the farmers with a new source of income in this area. Farmers in some of these counties are now shipping large quantities of hatching eggs which have been found to possess a very high rate of hatchability, and in a number of counties broiler production is now on a commercial scale."

M. R. WHISENHUNT IS NAMED HEAD OF MOUNTAIN EXPERIMENT STATION

Murry R. Whisenhunt, former assistant farm agent for Ashe county, has been named assistant director in charge of the Mountain Experiment Station of the North Carolina Department of Agriculture at Waynesville.

The test farm is not new to Mr. Whisenhunt who was born at the Mountain Experiment Station 26 years ago when it was situated at Swannanoa, and spent most of his life there.

Whisenhunt spent three years in the Army, part of which time was served in the European theatre. He was graduated from North Carolina State College last June with a Bachelor Degree in Animal Industry. At State College, he was president of the Agricultural Club, president of the Animal Industry Club, was a member of Alpha Zeta, honorary agricultural fraternity, and was chairman of the Departmental Honor Committee.

Upon graduation from State College, Whisenhunt became assistant county agent in Ashe county. He resigned this position to take up his duties at the Experiment Station.

Howard Clapp, former head of the Station, resigned to become farm agent for Cleveland county.

CONTROL CHICK LOSSES
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McClellan's Sul-nox-aquine Liquid for control and prevention of cecal coccidiosis, cholera and intestinal coccidiosis. McClellan's Sul-nox-aquine, a sulfaquinoxaline product, aids in the prevention and control of these dreaded diseases.
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BLUE GOOSE
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Now Available at Farmers Federation Stores

A Flock of Turkeys will Increase Your Income

By C. ROY SMITH
Licensed APA Poultry and Turkey Judge.

Turkeys are just the thing to increase the farm income of hundreds of Western North Carolina farmers this year.

With higher meat prices in the offing and the greatest consumer education campaign in history being conducted, the public will be eating turkey as never before. Now is the time for all of us to raise more turkeys. There is an excellent market here and there has never been enough turkeys to supply this demand.

Turkeys are much easier to raise now than in the past, due to special medicines to combat diseases, new feeds better fitted for turkey growth and years of experience which have taught the turkey grower the best methods of avoiding the many pitfalls that existed in the past.

T. Perry Greene, of the Farmers Federation Market Department, will be glad to help you get started. He can arrange to supply you with the best type of poults for the current market and will secure them from approved, pullorum-free hatcheries. If you are a beginner in the turkey business, it is best to start with about 500 the first year and let us help you get started in the best way to prevent disease and to have the proper feeding program. With the many new methods and the open land we have here in Western North Carolina, most anyone can raise turkeys profitably.

Many of the more experienced growers are now raising turkeys in confinement, never allowing them to touch the ground. Caleb Carter of Buncombe county, raises his turkeys, both bronze and white, in complete confinement. Starting with 600 Bronze birds in one flock, he sold 547.

The birds were raised on 55 sacks of turkey starter, one sack fine chick grain, 143 sacks turkey grower mash, 159 sacks finisher pellets, and 186 sacks white clipped oats, a total of 544 sacks of feed. The birds weighed a total of 11,414 pounds when marketed, or an average of 20.98 pounds of meat per sack of feed.

Many other growers are raising in confinement with a nice profit of $1.00 to $2.50 per bird labor income.

Turkeys raised on the range require fewer buildings and supplies than do poultry. A brooding house with one square foot per poult and a brooder are necessary for the first four weeks, and a sun porch made of slats allowing four feet per bird for the next six weeks. After this, the birds are allowed on the range. A roost is constructed on the range with wire encircling it to prevent animals from molesting the birds at night and to keep the birds away from the droppings in the daytime. Feeders and waterers are placed outside the roost and are moved every two or three days to keep the ground in good condition.

Save To One-Third On Feed Cost

The restricted feed plan calls for limiting the feed shortly after the poults are moved out on the range. Most turkey raisers spend too much money for feed in raising their poults. If feed is kept before the birds at all times after they are ranged, much feed is wasted. Poults that are allowed to go without feed until they become hungry are much more active than those over-loaded with feed. They are less apt to become constipated and, generally speaking, live and grow better. We believe that much of the mortality in growing poults is due to over feeding.

A hungry bird is a good forager. Cereal grass is one of the cheapest food nutrients we can supply growing poults, as it is rich in vitamins and essential minerals, contains bulk, helps to grow good bone and feathers and develops a sound digestive tract. Rye, Barley or Oats are good for this.

If you plan to raise 500 or more turkeys, contact the Farmers Federation for full details on our Turkey Finance Plan and the Ful-O-Pep feeding plan.

Fine Tobacco Is Grown With PLANTERS

C. E. Webb, Leicester, N. C., whose tobacco crop is shown above, says, "My tobacco crop last year was grown with Planters Tobacco Fertilizer, and I don't believe I could have had as fine a crop with any other plant food."

Get the Most Out of Your Land . . . . .

USE

Planters Fertilizer

FOR SALE AT ALL

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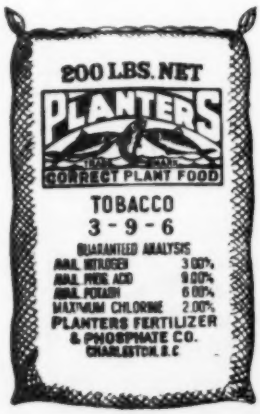

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Woman's Page

By Mrs S. C. Clapp

HINTS FOR HOMEMAKERS

From time to time we try to give ideas and suggestions to homemakers that will make their work easier for them. Below are listed some familiar hints. Check yourself and see if you are doing these things or see that you have the equipment that will help to make work easier in your home.

1. Family bulletin board for grocery lists and instructions for family members.
2. Do you have reliable scales?
3. Is there a pair of scissors for the kitchen?
4. Do you have a place for paper bags, wrapping paper and string?
5. Do you have dry and liquid measures?
6. Do you have measuring spoons and cups?
7. Do you have a place where knives can be kept safely and where the edges won't get dulled?
8. Is there a yardstick and a foot ruler in your home?
9. Have you become acquainted with the paper products that help make work easier, such as paper napkins, plates and cups for party use.
10. Make complete lists every week. Try to stagger the purchase of the heavy items so that these are not bought at the same time. These items are hard to handle.
11. Keep flavorings, spices and seasonings on hand. The lack of such may keep a certain dish from being up to standard.
12. Are your eggbeaters, pantry blenders and other equipment properly stored so they do not become bent?
13. Are you on the lookout for mice, roaches and silver fish? Do you have supplies and equipment to fight these?
14. Do you study brands and weights and compare costs?
15. Would a wheel tray help you to save time and steps?
16. Do you plan to save steps and energy?
17. Are you a thinking homemaker or do you work in a routine manner without giving thought to this important job you are holding?
18. Make your head save your heels.

* * * * *

HAVE YOU TRIED THESE?

CHILI CON CARNE

2 pounds round or lean chuck steak
2 pimientoes
2 cups rice (cooked)
½ cup beef drippings or ¼ cup margarine
½ large can tomatoes
1 large onion

Garlic, salt and pepper or garlic salt. Trim meat free from fat and gristle and cut into cubes. Place drippings in pan, add meat which has been flavored and cooked until brown. Then add pimientoes, tomatoes, onion and seasonings and cook until meat is tender. Make a ring of the rice on a chop dish and place the chili con carne in the center.

BROILED GRAPEFRUIT

Grapefruit
Butter to season
Brown sugar or honey to taste
Wine (if desired)

Cut grapefruit in half and remove seeds and white membrane between sections. Place brown sugar and butter in center and broil until well browned. Honey may be used instead of sugar. If the flavor of wine is desired, it may be added. Broiled grapefruit can be used as an appetizer or a dessert.

* * * * *

CHEESE PIE

3 eggs
Grated rind and juice of 1 lemon
1 cup sugar
1 large tablespoon bread crumbs
2 cups cheese.

Mix sugar and bread crumbs. Separate two eggs. Beat 1 whole egg and two yolks together. Add eggs and cheese to sugar mixture and mix well. Pour into an unbaked pastry shell and bake at 400° F. until pastry is done. Make a meringue of the two egg whites and two tablespoons of sugar and lemon juice. Meringue should be browned quickly.

DID YOU THAT?

That you can use the timer on your electric stove or the timer on your electric clock for many purposes? Set it and try it for the children's studying, piano practicing, short naps, rest periods and long distance phone calls.

Start today to make a scrap book of ideas for Christmas. Keep a list of people to whom you want to send cards, clip suggestions for gifts, recipes for Christmas cookery and ideas for decorations. Then you will be all ready, come Christmas, 1951.

That your roast or chicken will be so tender and good if baked in a coat of tin foil? Wrap the meat in the foil and cut the baking time down. The tin foil holds the steam in, saves time and makes the meat tender.

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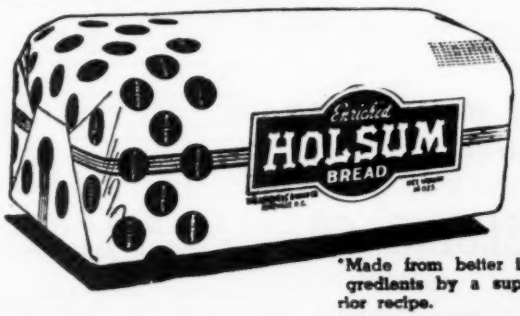

*Made from better ingredients by a superior recipe.

KANSAS CREAM
Self Rising

MUFFINS

3 tablespoons butter
3 tablespoons sugar
1 egg, beaten
¾ cup milk
2 cups self-rising flour

Cream butter and sugar, add the beaten egg and cream until light. Add the self-rising flour and milk alternately to the creamed mixture. Stir only until thoroughly mixed. Fill well greased muffin tins ⅔ full and bake in a moderate oven (400 F.) for about 30 minutes.
Yield, 8 large or 12 small muffins

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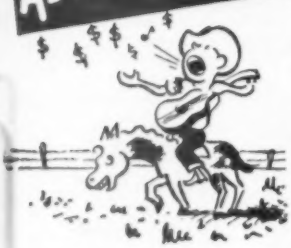

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Steam dried. Meal or pulp form.

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Pulp available at all Farmers Federation Warehouses.

PLYMOUTH
CITRUS PRODUCTS
COOPERATIVE
PLYMOUTH FLORIDA

BETTER EGG PRODUCTION

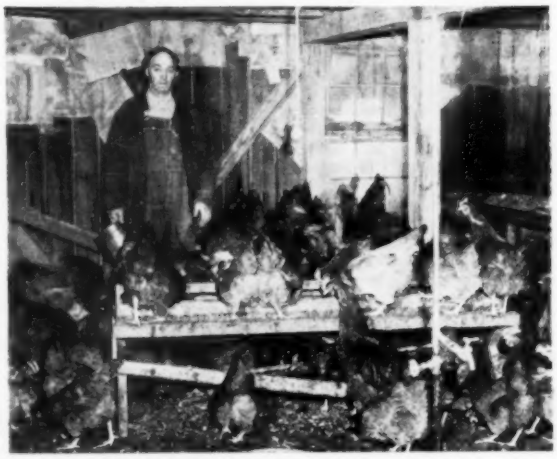
(Continued from page 5)

hen needs plenty of good clean shell and grit if she is going to keep a shell texture of good quality. Hens should be checked for lice or mites. If tobacco is raised on your farm, run the stocks through an ensilage cutter and use them for litter, it's very helpful in keeping down parasites. Hens like to lay in a large, clean, well bedded, dark nest. The community type is very good as the eggs are seldom broken or dirty. Culling is another thing that should be done weekly. As you check your birds remember that a hen that is not laying or has finished laying is only eating, and taking up the room of hens that are paying their way.

Disease Control

Disease control is another one of the factors that will increase your profit. Disease is partly lack of sanitation. Remember the four S's; sweep, scrub, scrape and spray, and your flock will be practically disease free. Baby chicks should be purchased from a reliable hatchery, and be from pullorum-clean flocks. The houses the hens are kept in should be bird and rodent proof. Visitors should be kept out of the chicken houses as they might have come from an infected flock. Do not keep old birds around the young chickens as they are a source of disease; if you have to keep the old birds, keep them separated. When a bird appears sick, take it away from the flock, and, if possible, send it to the poultry laboratory.

Poultryman of The Month



J. B. WALLIN, Marshall, RFD 4, has been selected Poultryman of the Month for February. The above photo shows Mr. Wallin in one of his laying houses.

J. B. Wallin, Marshall, RFD 4, has been selected Poultryman of the Month for February.

Mr. Wallin has been in the poultry business for 18 years and has been producing hatching eggs for the past 12 or 15 years.

Although he usually keeps from 400 to 500 New Hampshire Red birds, his flock is down to about 370 at present. He puts baby chicks in his two brooder houses in March so that they will begin laying about October, when he begins his culling process. Mr. Wallin had three brooder houses using electric brooders until about three weeks ago when one of his houses was completely destroyed by fire. Each of the remaining houses will accomodate 500 baby chicks.

In addition to the poultry business, Mr. Wallin and his wife operate a 37 and one-half acre farm upon which they raise tobacco for a cash crop and corn for feed.

The Wallins own 11 thoroughbred Jersey cows which average 275 pounds of milk daily on a year 'round basis. Mrs. Wallin, of course, has her garden in addition to the poultry, dairy and farm work.

The Wallins have no children at home, their only daughter being a teacher in Haywood county.

The News feels that Mr. Wallin is an excellent poultryman and was well selected as Poultryman of the Month.

WE REPAIR FARM IMPLEMENTS
BRING YOUR FARM MACHINERY TO US
FOR ANY WELDING JOB
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Now you can forget the danger of losing meat from skippers and ham mites. The CHAMBERS method, correctly followed, puts an end to these costly meat destroyers forever.

THIS IS THE CHAMBERS METHOD
Treat your meat liberally with Chambers Improved Anti-Skipper Compound after meat has been cured. Then check regularly every four weeks. Moisture may carry away some of the Anti-Skipper Compound. Cracks which sometimes develop in cured meat will also leave a place for skippers to start working. Naturally, one application methods cannot give lasting protection when such conditions exist. But by checking, you can discover these unguarded places and reseal them with Chambers Improved Anti-Skipper Compound against skipper or ham mite damage. Just follow this Chambers method, using Chambers Improved Anti-Skipper Compound as needed every four to eight weeks, and you can be positive that your meat is perfectly protected against skippers and ham mite damage. This year, don't let skippers rob you of valuable meat. Follow the Chambers Method and be sure. Chambers Improved Anti-Skipper Compound, containing Pyrenone* is sold on a money back guarantee through dealers everywhere.

* Registered Trade Mark of U. S. Industrial Chemicals, Inc.

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Improved Anti-Skipper Compound
A product of Chambers-Godfrey Manufacturing Co., Martin, Tennessee.

Dwight Williams Wins North Carolina Corn Growing Championship Second Year

NORTH CAROLINA LOSES CORN WAR WITH VIRGINIA FOR SECOND SUCCESSIVE YEAR

HISTORY was repeated this year in the 100 bushel corn growing contest in North Carolina, and in the "Corn War" between North Carolina and Virginia.

Dwight Williams of Graceland Farms, Waynesville, won first place in the State corn growing contest for the second successive year, being the first grower ever to hold this honor, and North Carolina lost to Virginia for the second successive year.

Williams, who won the 1949 title with a yield of 142 bushels per acre, has been awarded top honors in the 1950 contest with a yield of 133.64 bushels per acre. He will receive a $100 savings bond as mountain winner and another $100 bond as State winner.

Announcement of State and regional winners was made by Dr. E. R. Collins, extension agronomist at State College and chairman of the State contest committee.

All prizes are made available through the cooperation of the North Carolina Foundation Seed Producers, Inc.

Williams grew Dixie 17 in 41.5-inch rows, spacing the stalks 12 inches in the drill. He planted the crop on May 6, applied 300 pounds of 5-10-10 fertilizer at planting, and side-dressed with 300 pounds of 32-0-0 and 100 pounds of 0-0-50. His fertilizer cost per bushel was 34.6 cents.

North Carolina lost to Virginia in the corn war again this year, but Tar Heel farmers won a consolation prize of more than four million bushels of corn.

This State's history-making corn crop of 81,955,000 bushels in 1950, exceeds last year's production by 4,430,000 bushels, with no increase in the number of acres harvested.

The record yield of 37 bushels per acre exceeded last year's average by two bushels, and represented a 44.5 per cent increase over the 10-year average. However, this increase in yield, the basis for judging the winner in the corn war, wasn't quite good enough. Virginia came through with an increase of 49.4 per cent and an average of 49 bushels per acre.

Fortunately, the losers in this war do not have to forfeit the corn. All Virginia gets out of the victory (except, of course, a bumper crop of its own) is the right to keep permanently the trophy presented to Virginia's Governor Tuck last year. This trophy, a silver plated ear of corn on a metal base, was donated by the National Fertilizer Association and was presented to the State of Virginia by Governor Scott at a ceremonial luncheon last December. On that occasion he issued a new challenge which resulted in the 1950 corn war.

There has been no announcement from Governor Scott as to whether he will pit North Carolina corn growers against Virginia's two-time winners in a 1951 contest.

"Whether he does or not," Agriculture Commissioner L. Y. Ballentine said, "I am confident that North Carolina farmers will continue the cultural practices which have brought them record crops, and the time may yet come when we will outstrip our neighboring state. 'War' or no 'war,' we have everything to gain and nothing to lose by trying."

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OF ASHEVILLE, N. C.
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MAY BELL
PURE
FIELD SEEDS

BE SURE SECURE

IT PAYS TO SOW 'EM
TRADE MARK
MAY BELL pure FIELD SEEDS

Over 55 Years The Best

ASK YOUR DEALER

"It Pays To Sow 'Em"

SHIPP'S
Stand-up White Burley
TOBACCO SEEDS
Now At Your Dealers

CERTIFIED KY. 16
High in quality and weight. A stand-up variety which has gained popularity throughout the "burley belt." Resistant to black root-rot.

CERTIFIED KY. 41-A
A semi-stand-up variety of good weight and quality. Produces relatively few small suckers, small stalk. The bottom leaves cure up especially bright. Black root-rot resistant.

KY. 57
Black root-rot AND mosaic resistant. A stand-up variety of good yield and high quality.

KY. 56
Similar in appearance to Ky. 16. This variety has its place where mosaic is a problem such as in fields where tobacco is being grown continuously. It is a stand-up type of good yield and quality. Black root-rot resistant.

OTHERS—Ky. 35, Ky. 22, Burley One, Ky. 26, Ky. 24.
GERMINATIONS—85% and Above. Purity, 98% or Better.

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SHIPP TOBACCO SEED CO.
MIDWAY, KY.
In Heart of Burley District
FOR SALE BY
FARMERS FEDERATION STORES

FLOCKOWNERS' NEWS

(Continued from Page 7)

breeds. (5) The pullets hit large egg size early in life to give you a higher percentage of all eggs laid that are suitable for hatching

I sincerely want more flockowners to start birds earlier this year if possible. January and February started chicks will give hatching eggs in the late Summer when they are scarce and the price is high.

New Man Joins Staff

Mr. W. W. Fowler of Weaverville joined the force of the hatchery on January 2. Mr. Fowler, or Bo, as he is known to his many friends, will be working with you from time to time as he is to take over the bloodtesting, vaccinating, and culling work. We feel that Bo will make a good man to help us as he has 12 years of poultry experience behind him. This is going to free Silas Little to do more visiting with you and to help with your problems. He also will spend time calling on prospective flockowners and help them become established in the poultry industry. As we have told you before, it is our intention to give the best service that a hatchery can possibly give.

Flockowner Meetings

In the near future, where our flocks are thickly concentrated, we are scheduling flockowner meetings. At these meetings, we are going to discuss cull eggs, feeding programs and replacement chicks for a new year. Where our flocks are sparsely situated, either Mr. Little or I will be calling on you to discuss these same things. We feel that these meetings are beneficial as they afford an excellent opportunity for us to get better acquainted and to iron out difficulties that might exist.

As you notice, hatching eggs are again soaring toward a high level in price. Let this be an added incentive for us to take better care of the birds, and I hope that every flock that was started in the spring already has or is about to pay for itself, and that production from now on is for current expenses and profits.

Remarkable Results

Raising Baby Chicks

Mrs. C. M. Bradshaw, Diagonal, Ia., says: "I have been using Walko Tablets for 35 years with splendid results. I would not think of trying to raise Baby Chicks without them. I also use them for my grown birds with the same satisfaction."

You Run No Risk

Buy a package of Walko Tablets today at your druggist or poultry supply dealer. Use them in the drinking water to aid in preventing the spread of disease through contaminated water. Satisfy yourself as have thousands of others who depend upon Walko Tablets year after year in raising their baby chicks. You buy Walko Tablets at our risk. We guarantee to refund your money promptly if you are not entirely satisfied with results. The Waterloo Savings Bank, the oldest and strongest bank in Waterloo, Iowa, stands back of our guarantee. Sent direct postpaid if your dealer cannot supply you. Price 60c, $1.20, $2.50 and $4.00.

Walker Remedy Co. Waterloo, Iowa

Dairyman of The Month

W. G. OWENBY, Hendersonville, has been chosen Dairyman of the Month for February. His children, Michael and Carol Ann, are shown in the photograph with one of their favorite cows.

OWENBY SELECTED FEBRUARY DAIRYMAN

W. G. Owenby, 919 Shepherd Street, Hendersonville, has been chosen Dairyman of the Month for February.

Mr. Owenby, assisted by his wife, has been in the dairy business for about 23 years in Hendersonville, and now has 17 cows and three heifers on his farm. Although some of the cows are dry at this time, Mr. Owenby averages about 30 gallons of milk per day throughout the year.

Carol Ann Owenby, aged 5, and her brother, Michael, 10, are a great help to their mother and father at the dairy. Michael gets the cows in for milking and helps to feed them, while his sister helps with small chores about the farm.

The News takes great pleasure in selecting Mr. Owenby Dairyman of the month.

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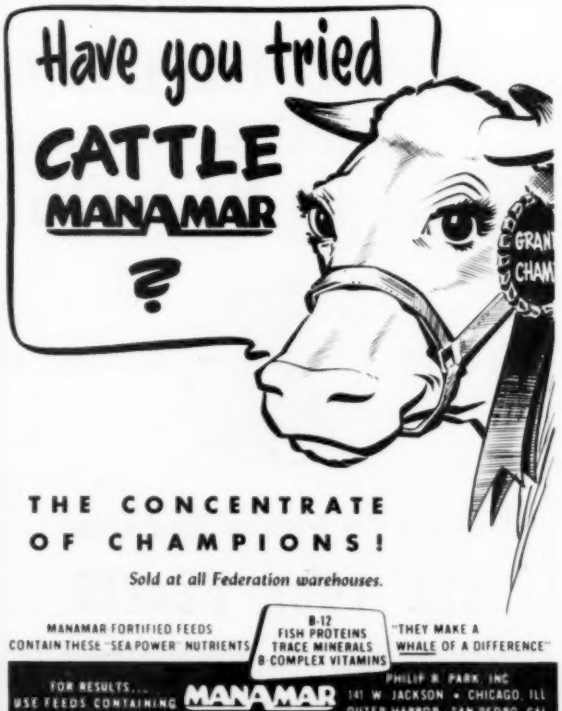

Garden Notes

By Mrs. C. C. Proffitt, Asheville Garden Club

"Little month, we are glad that
you are here,
Smallest month in all the year!
And though your wintry winds
may sing,
You bring the first hint of Spring."

There may not be too many outward signs of returning life to our gardens, especially if the winter continues to be as severe as it has been since November when we experienced one-above-zero weather; still our thoughts and gardening activities breathe of Spring.

As I write this in early January, we are still having intense cold; so very different from this time last year and on through February when we were having unseasonable Spring-like weather and everything was budding out. At present, the garden, particularly the shrubs, present a sad picture. I have never seen the broad-leaf evergreens (which I spoke of so highly last month) so completely cooked, as if they had been scalded. The cold, coming so suddenly in the fall before they were hardened, is one reason for this. If you are planning a new planting of evergreens, it is well to keep in mind the ones that have held up under this cold spell such as English holly, Julianna barberry, most boxwood, hemlock and spruces. It is a joy to see these few remaining green, when everything else is brown.

The first week in February has been designated as garden planning week. With our catalogues in hand, we can plan our garden on paper, moving our plants and shrubs with ease as often as we wish, and working out the most wonderful color combinations in our borders. It is a wonderful pastime for the long winter evenings. This done, we are ready to make out our seed plant and bulb order, working it over several times to be sure we have not included more than we have possible space to plant. The flower pictures all look so pretty in the catalogues that we want them all and it is hard to make sensible choice.

Of course, experience will teach us a little about the plants that have given us satisfaction and have performed best in our given location, but, even then, we often forget from one season to another unless we have made careful notes. For instance, my notes tell me not to plant larkspur and zinnias another season due to continued disease that seems to attack them each year in my garden. Instead, I will substitute the yellow Boston daisy (in combination with blue Ageratum) that blooms all summer long until frost. So far nothing seems to bother this plant. I have cuttings of this flower that I have kept in the house all winter in sand and vermiculite that will be ready to put out in May.

In making our selections of seeds and plants we would surely want to include some of the new things even though we have not tried them out. In the All-American Selections this year there are fine vegetables receiving medals, which include a new hybrid corn, cucumber, midget watermelon, muskmelon, and cabbage. And two flower award winners — Tithonia, Torch, receiving the silver medal, and Marigold Glitters, the bronze medal. The description of these sound far superior to the older varieties. There is also a new pure white Cleome or spider plant and a number of new perennials which sound interesting.

Now for a few actual jobs that can be done outdoors this month on mild days. Pruning is one of these, starting first with the fruit trees and grapes, and the hardier summer blooming shrubs that flower on new growth such as the hardy Hydrangea, Philadelphus or mock orange Vitex, and Altheas. The spring blooming ones like Forsythia should not be pruned until after blooming, and roses and Buddleis should not be pruned until all danger of freezing weather is over.

Pruning requires real care and study and should not be done by just anyone that comes along wanting a job. So many of our beautiful, graceful shrubs are butchered each year by whacking them square off at the top as if trimming a hedge, instead of removing or thinning part of the old growth from the bottom, and if necessary clipping any ungainly growth at the top.

Another of these outdoor jobs is applying a dormant spray to trees or shrubs like lilacs, that are infected with scale. This should be done only when the temperature is 40 degrees F or higher, as the spray must dry before the temperature drops below freezing at night.

Putting the cold frames or hotbeds in order for early March sow-

(Continued on Page 18)

Each $1.00 invested in
NATURAL CHILEAN NITRATE of SODA
brings big, EXTRA PROFITS this year!

300 lbs. of Chilean Nitrate increased yields of oats 35-40 bu. per acre. Dollar return: almost 4 to 1. Chilean Nitrate also improves the feeding quality and the protein content of forage crops.

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300 lbs. of Chilean Nitrate increased yields of corn about 20 bushels per acre. Dollar return: almost 4 to 1. Chilean Nitrate means *maximum* yields for maximum *profits!*

HERE'S WHY: Nitrogen content — all nitrate nitrogen . . . fast-acting . . . completely available . . . the *only* natural nitrate in the world.

Sodium content — contains 26% sodium (equivalent to 35% sodium oxide) . . . sodium is *essential* to maximum yields . . . substitutes for potassium, where lacking, and makes soil phosphate more available . . . helps "sweeten" the soil.

Other plant foods — *natural* traces of iodine, manganese, potassium, magnesium, boron, calcium, iron, sulphur, copper and zinc.

Uncle Natchel says: "Look for the bulldog on the bag. It mean *natchel* soda in free-flowin' pellet form. Used now for over one hundred years."

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Farmers Federation Stores

Speech Contest To Be Held On Green Pastures Program In State

Several thousand high school students throughout the State are expected to participate in the 1951 agricultural speaking contest sponsored by the North Carolina Bankers Association in cooperation with all agricultural agencies, according to Dr. E. R. Collins, extension agronomist at State College.

"Green Pastures and Their Place in the Economy of North Carolina" is the subject to be used. March 16 is the suggested date for school contests, March 23 for county contests, and March 30 for group contests. The state finals will be held in Raleigh on April 6.

The state winner will receive a prize of $400 in savings bonds. The second state prize will be a $100 bond, and the third prize will be a $50 bond. The first-place winner also will be given a free trip to the three-day State convention of the Bankers Association at Pinehurst early in the summer.

Many school and county prizes will be given by local banks and other business firms. Prizes for group winners, to be donated by bankers in the various group areas, will be a $50 bond for first place and a $25 bond for second place.

Students interested in participating in the contest should see their local school principal or the county farm agent. All farm agents have kits of subject-matter material which will be made available to the various schools within the county.

Southeastern Story In REA Publication

An article on Southeastern Artificial Breeding Association entitled "Artificial Breeding — A New Program for the New South," appears in the January issue of the REA publication, The Electrifier, now in the mail. The Electrifier is a small magazine published monthly by the French Broad Electric membership corporation at Marshall, N. C. The article occupies two pages and gives the history of the breeding association and the many advantages of artificial insemination. Five photographs appear with the article, one of which is on the cover.

Broken, Cracked Eggs Cost Poultryman $250 Per Year

As a poultryman, how many cracked and broken eggs do you discover each week? Do you attempt to correct the condition, or do you try to rationalize that nothing can be done about the situation; that a certain number of eggs are bound to be broken?

Professor R. S. Dearstyne, Head of the Poultry Department of State College quotes from the 1949 annual report of the New Jersey Agricultural Experiment Station that ". . . cracked and broken eggs cost the average egg producer from $250 to $350 annually."

"Therefore," declares Professor Dearstyne, "it seems reasonable to assume that the egg producer should stress every possible precaution to reduce this loss to a minimum."

Egg shells have the following chemical composition: calcium carbonate, 93.7 per cent; magnesium, 1.37 per cent; phosphorus, 0.76 per cent; and organic matter, 4.15 per cent.

Minerals Important

These proportions make it necessary that, in formulating a mash for poultry, the mineral demands of the bird receive consideration.

Trace elements, those minerals for which specific supplementation must be made, are required only in minute quantity and are usually found in adequate quantity in normal mash. Trace elements include at least 15 specific chemicals.

Minerals for which specific supplementation is required are calcium, phosphorus and manganese. These are supplied in the form of limestone, rock, rock phosphate or bone meal and manganese sulphate or oxide. To have these mineral elements fully utilized requires a well-defined level of Vitamin D in the mash.

The path of minerals in the bird's body from time of ingestion to that of egg shell is of interest. Minerals are dissolved into soluble form in the gizzard of the chicken. Passing into the intestine in this form, they are absorbed by the capillaries into the blood stream. From here the minerals are carried to the shell-forming portion of the oviduct.

From 22 to 26 hours are required for a hen to build an egg, and of this time 18 to 22 hours are consumed in the shell formation. A high per cent of the shell is pure calcium carbonate.

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After the shell is formed, it is covered with a layer of protein material commonly called cuticle which contains a thin deposit of fine salts. This finish or "bloom" waterproofs the eggs.

"In what quantities are minerals needed by the hen?" the poultryman asks. Professor Dearstyne says that minerals are needed not only for shell formation but that they also form a high percentage of the skeleton. They are needed for beak and nail formation. Minerals enter into the nuclei of body cells and blood plasma and, finally, they are very important in the control of acidity or alkalinity of the blood.

Mineral balance, it is seen, is very essential to the poultry diet if the requirements noted above are to be met. An extreme excess of one or more minerals places a heavy load on the kidneys which may result in serious injury.

A group of poultry specialists known as the National Research Council has developed standard mineral requirements for mashes. The standards are changed as new research indicates the necessity. Latest standards for calcium and phosphorus are 1.0 calcium and 0.6 phosphorus for chicks and growing birds, and 2.25 calcium and 0.75 phosphorus for laying and breeding birds. These figures are percentages or amount per pound of feed.

As to the cause of broken eggs, Dearstyne thinks that inadequate diet, particularly one that omits minerals, contributes generously to soft-shelled eggs and a high percentage of breaks or cracks.

Frequently in the late spring when the birds are "laid out" there is a tendency for a reduction in egg size and in shell calcification. Aside from these conditions, many cracked or broken eggs are the result of poor management or careless handling.

Poor management factors include too few nests for the birds as well as improperly constructed nests. Inadequate amount of nesting material often is a factor in egg breakage and failure of the poultryman to make frequent collections from the nests each day adds to the toll. These are managerial conditions which can be corrected by the poultryman with little effort.

Although most poultrymen provide wire baskets for egg-collecting purposes, some poultrymen fail to keep a reasonably thick layer of excelsior or other soft material in the bottom of the baskets. Baskets with room for rolling eggs or carelessly knocking containers against doors or partitions add to the toll.

NEWS FROM THE FRONT

(Continued from Page 4)

Fibre Company on February 1 in their Forestry Department.

When the Farmers Federation first started a Forest Products Department, some 20 years ago, there was not a great deal of interest in sustained yields in this territory. Little by little the value of caring for woodland has been recognized. The Champion Paper and Fibre Company has been one of the leaders in educating the owners of farm wood lots as to how to handle and care for their woods in order to insure continuous growth.

The Champion Paper and Fibre Company of recent years has given more and more attention to helping woodland owners with plans for maintaining the growth and value of their woodlands. The Farmers Federation therefore is pleased to transfer this department to the Champion Paper and Fibre Company and will cooperate with them in every way in order to insure the continuous growth of trees in Western North Carolina. All persons who are shipping to Farmers Federation will now be automatically transferred direct to Champion Paper and Fibre Company.

Mr. R. T. Reed is one of the finest men who has ever worked with the Farmers Federation. He has done everything in his power to help the woodland owner get the value out of his crop and keep that crop growing year after year. With the Champion Paper and Fibre Company we know that he will continue his great interest in developing and preserving the forest value on the farms in our Western mountain counties.

● ● ●

Want To Make Money?

TURKEYS look like money-makers this year. Last year every farmer who grew turkeys for the Farmers Federation made good money. Prospects look good again this year.

See the manager of your Farmers Federation warehouse and ask him to tell you about the financing plan.

FOOD BROKERS, INC.

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DIXIE CRYSTAL SUGAR
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Mr. Poultryman - - -

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PYROFAX IS THE LAST WORD IN GAS!

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LET US TELL YOU THE ADVANTAGES OF USING PYROFAX BOTTLED GAS FOR WATER HEATING—COOKING—REFRIGERATION AND MANY OTHER FARM USES.

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GARDEN NOTES

(Continued from Page 15)

ing is another "must" for this month.

Sweet peas should be planted as soon as the ground can be worked. Much better, of course, if the trench for them was prepared, with manure at the bottom, last fall.

The lawn comes in for some attention this month as the weather permits working outdoors. Grass sown early will get a better start than that planted later, and, during warm spells, old grass will begin growing vigorously, so will need feeding early with a good, complete lawn fertilizer. According to a grass expert, the worst enemy of your lawn isn't bugs or weeds, it's compacted soil. He advocates spiking to loosen and aerify the soil and let in water and food. For large grass areas there is a machine for punching holes in old turf, but for a small lawn, you can get something of the same effect by using a spading fork, pushing deep into the soil. This, of course, should be done before sowing or feeding.

Toward the end of the month, there are a few slow-growing annuals, such as Petunias, snapdragons and stocks, that should be started indoors if you plan to raise your own plants. Starting the seeds in the house is easy enough, but growing the young plants successfully from the time they come up until time to put outdoors is likely to be a trickly business unless you are better situated with respect to sunny window space than are most people. It is far from easy to regulate light, temperature and ventilation that will be favorable enough to produce stocky, strong rooted seedlings, and, often, inexperienced gardeners are greatly disappointed in their efforts. It can be done, but requires much study and considerable care.

Besides these early seeds, such tubers and bulbs as Gloxinias, Caladiums and tuberous rooted begonias may be started in pots by the end of this month or the first of next in a mixture of sand, peat, and vermiculite, and, later, repotted in a humus soil for outdoor use.

Some of the reminders of last month, like the care of houseplants, apply to this month as well, as so often the chores of one month carry over into the next.

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Dial 2-3535 W. Asheville, N. C.

Send The Federation News To The Boys In Service

Western North Carolina boys in service may now receive the Farmers Federation News at the regular subscription price anywhere in the world. To send the News to a man in service, fill out the coupon below and mail with check or money order to Farmers Federation News, Asheville, N. C. Rates are $1 per year . . . $2.50 for 3 years.

Please send the Farmers Federation News to:

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Days in hospitals cost money—and everyone realizes the need for insuring against these heavy expenses. Now, Lumbermens Mutual Casualty Co. offers a Personal and Family Hospital Expense Policy that places within your reach the type of hospital room and service you want for yourself and members of your family. This modern, simplified policy provides—

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Get Armour's for pastures and haylands from your friendly Armour Agent. He has the analyses you need to put extra milk-making nourishment in every acre of pasture, every bale of hay. Today, order Armour's—the fertilizer used by more farmers.

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Vertagreen **Armour's complete, balanced plant food made especially for high-income crops.**

Double-Strength **More plant food units per bag at lower cost per unit with Big Crop high analysis double-strength fertilizers and Big Crop 45% SUPERPHOSPHATE. Save on handling, transportation, storage.**

*T. M. REG. U. S. PAT. OFF.

ARMOUR FERTILIZER WORKS

The Country Church With The Lord's Acre Plan

By REV. DUMONT CLARKE

The Lord's Acre Anniversary issue has been deferred. Please see special notice in "News from the Front."

The Lord's Acre project of Grover C. Green and son, Ben, of Pleasant Hill Baptist Church, Rutherford County. Please see article below.

The Emblem of the Cross On A Lord's Acre Project

A very meaningful interpretation is found in the picture on this page of Grover Green and his son. When the director of the religious department came to take the picture of father and son in the dedicated field of corn, which brought $42 as a supplementary gift to their church, the Lord's Acre sign which is usually included in a picture was left behind.

The thought came to bring out in a fresh way the deeper significance of the project. A long stake was lying nearby and also a broken branch of a pine tree. These were arranged, as seen in the picture, in the form of a cross. The cross is the emblem of Christian sacrifice. All truly dedicated giving, such as this, has some exemplification of the cross of Christ.

The meaning of the project was further emphasized in a conversation at the project. "Brother Green, has the work on this field of corn and its presence on your farm brought you spiritual inspiration?" The reply was instant, "If it hadn't I wouldn't have fooled with it." What blessed spiritual potentialities there are in a worthy Lord's Acre project!

Excellent Cooperation Brings Good Results

The members of Friendship Methodist Church have cooperated well in the Lord's Acre work this year. To date we have collected $457.81 to be applied toward building a 20 x 40 building for recreational and general church use. It will be made of concrete block with the outside stuccoed and the inside plastered. We plan to build it entirely with the Lord's Acre funds, and the young men's class intends to do a considerable portion of the work. This class adopted the bean project, pictured on this page, which furnished $53.25 of their contribution of $134.75.

Carolyn Stevens, age 11, raised $31.50 by selling milk and butter, and her sister, Judy, who is four years old, contributed $7.50 by selling eggs. We are especially proud of them.

We believe the Lord's Acre Movement has aided our attendance record as well as stimulated more interest in church work. Certainly a program so effective as this is worthy of adoption.

Roy W. Cooke,
Hildebran, N. C.

Group of Lord's Acre workers of Friendship Methodist Church, Burke County, Rev. J. W. Parker, pastor. Projects are described in article on this page.

Scripture-Prayer Verse for February

My meat is to do the will of him that sent me, and to accomplish his work. John 4:34. (Am. Revision)

A QUESTIONNAIRE FOR THE COUNTRY CHURCH IN THIS WORLD CRISIS

Question—By an experienced Lord's Acre Worker. "In this critical time when the use of every sound Christian force should be considered, do you plan to carry on the Lord's Acre work in your church this year?"

Response—By a minister in a country church. "We are indeed considering the Lord's Acre plan. We know that it is a basic Biblical practice. We know it is effective for helping to build a working, inspired church. However, many of our people think it takes too much effort to make it successful."

Mr. Clarke

Question—"It does require effort to undertake dedicated work-projects. But, do you have any adequate substitute for training most of your boys and girls in Christian stewardship — in tithing?"

Response. "No, we do not have a satisfactory substitute. Frankly, the giving of most of our boys and girls, and of many of our adults, is neither well planned nor sacrificial. We know, too, that 'faith without works is dead'."

Question. "Let me further emphasize this point. Does not Christ teach that each follower of His must support His Cause by personal sacrificial effort, using His strong words, 'Whosoever doth not bear his cross and come after me, cannot be my disciple'?"

Response. "Yes, that is our Lord's teaching. And this discipleship unquestionably includes participation in Christian stewardship."

Question. "Do you know that the Lord's Acre plan has brought remarkable financial results in supplementing the income of large numbers of churches in the United States, Canada and on mission fields?"

Response. "Indeed, I continue to read of these remarkable results, of returns which were dreamed of but which were hardly thought possible."

Question: "Is it not also of great value for Christian fellowship that the Lord's Acre work enables everyone, young and old, to have a worthy part in giving to the church?"

Response. "Certainly, it is true that the working church, with everyone at work according to his ability, wonderfully inspires all as, 'laborers together with God'."

Question. "We are in a great world crisis. Men are dying daily for Christian freedom. Is it thinkable that church people shall observe secular organizations — the schools, 4-H Clubs and other groups — requiring difficult tasks, without challenging each member of the army of the Lord to carry out a sacrificial work-project?"

Response. "You are right! We must endeavor to have all our church people sacrificially at work for God. Unquestionably, the Lord's Acre plan and the Lord's Hour plan, when prayerfully guided and well managed, have great contributions to make in building the Christian forces of the world."

SOME LORD'S ACRE PROMOTIONAL THOUGHTS

"The Lord's Acre puts life into stewardship and nurtures a stewardship of life."

"A man—or boy—who won't work in the fields for God is not likely to work in the church."

'The Lord's Acre gives young and old a part in a working stewardship; it takes away excuses; it provides opportunities."

"The Lord's Acre plan won't work of itself. It takes head power, heart power, heel power."

1951 Ful-O-Pep Chick Starter gives your chicks

GROWTH POWER GALORE!

FUL-O-PEP'S ADDED NUTRITIONAL STRENGTH boosts health... livability... growth

Give your "bright-eyed" baby chicks all the *extra food values* they need to grow sound bodies and strong bones. Start 'em on power-packed 1951 Ful-O-Pep Chick Starter, built around wholesome, *nutritious oatmeal.* It's got GROWTH POWER galore!

Added life protection, too! For life-giving Ful-O-Pep is enriched with Concentrated Spring Range†, Nature's Richest Vitamin Boost for chick health and thrift. Many poultrymen report 95 to 99% chick livability.

So start your chicks on *improved* Ful-O-Pep Chick Starter. See your Ful-O-Pep Dealer.

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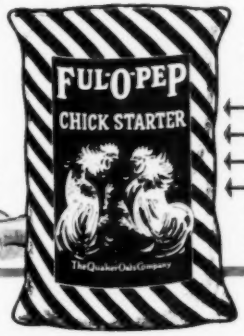

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Look at these nutritional values Ful-O-Pep gives your chicks:

- ***Body-Building Oatmeal***
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- ***Growth Vitamin B_{12}***
- ***Antibiotic Supplement***

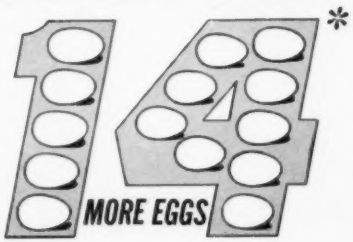
Also available with nitrophenide (Megasul) to help prevent coccidiosis.

National Egg Laying Contests prove

FUL-O-PEP GROWS AMERICA'S BEST PULLETS

Birds grown on Ful-O-Pep averaged laying the equivalent of 14½ more 2-oz. eggs each

*Yes, it's true! For the past 11 years in the 15 National Egg Laying Contests—open to all poultrymen—43,615 birds grown on Ful-O-Pep averaged laying the equivalent of 14½ more 2-oz. eggs each than the average of 103,350 birds grown on other feeds . . . official proof of Ful-O-Pep's superiority. Figure now, how much 14½ eggs per hen would *boost your egg profits* next year. You'll see it pays to start your chicks and grow your pullets on Ful-O-Pep.



GET COMPLETE FACTS FROM YOUR FUL-O-PEP DEALER!